Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

Claim 1 (Withdrawn): A method of manufacturing a semiconductor device according to

claim 10, wherein

said step (b) forms first and second gate electrodes in respective partial areas of said first

and second regions;

said step (c) implants impurities of the second conductivity type into a surface layer in

said second region on both sides of said second gate electrode;

said step (d) forms first spacer films on side surfaces of said first and second gate

electrodes; and

said step (e) implants impurities of said second conductivity type into surface layers in

said first and second regions to form second impurity diffusion regions.

Claim 2 (Withdrawn): A method of manufacturing a semiconductor device according to

claim 1, wherein said step (c) is executed after said step (f).

Claim 3 (Withdrawn): A method of manufacturing a semiconductor device according to

claim 1, wherein each of said first to third activation processes includes a thermal treatment at a

temperature at least equal to 750 °C.

Response under 37 C.F.R. §1.111

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Claim 4 (Withdrawn): A method of manufacturing a semiconductor device according to

claim 1, further comprising steps of:

(h) forming second spacer films on the side surfaces of said first and second gate

electrodes; and

(i) by using said second spacer films as a mask, forming a metal silicide layer on said first

and second gate electrodes and on said second impurity diffusion regions.

Claim 5 (Withdrawn): A method of manufacturing a semiconductor device according to

claim 1, wherein said third activation process is a laser thermal process.

Claim 6 (Withdrawn): A method of manufacturing a semiconductor device according to

claim 5, wherein said process (g) comprises a step of forming an absorption layer which

improves an absorption efficiency of laser radiated to said semiconductor substrate, a step of

implanting impurity ions of the second conductivity type into at least said first region by using

said first gate electrode as a mask, and a step of executing a thermal treatment by said laser

thermal process.

Claim 7 (Withdrawn): A method of manufacturing a semiconductor device according to

claim 1, wherein at least the first gate electrode is a dummy gate electrode, and the method

further comprises, after said step (g), a step of forming an insulating film over said

semiconductor substrate, said insulating film having etching characteristics different from

material of said dummy gate electrode, and planarizing a surface of said insulating film to expose

upper surfaces of said dummy gate electrode, a step of selectively removing said dummy gate

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electrode selectively with respect to said insulating film, and a step of burying conductive

material in a space from which said dummy gate electrode has been removed.

Claim 8 (Withdrawn): A method of manufacturing a semiconductor device according to

claim 1, wherein the gate length of said first gate electrode is shorter than the gate length of said

second gate electrode.

Claim 9 (Withdrawn): A method of manufacturing a semiconductor device according to

claim 1, wherein said first and second activation processes are executed at the same time.

Claim 10 (Currently Amended): A method of manufacturing a semiconductor device,

comprising the steps of:

(a) preparing a semiconductor substrate having first and second regions of a first

conductivity type defined by isolation regions in a principal surface area of the semiconductor

substrate:

(b) forming at least a first gate electrode in a partial area of the first region;

(c) implanting impurities of a second conductivity type opposite to said first conductivity

type into a surface layer of said second region, and thereafter executing a first activation process

to form first impurity diffusion region shallower than said isolation regions, the first impurity

diffusion region begin directly surrounded by said second region of the first conductivity type,

and providing a current path for charge carriers of said second conductivity type;

(d) forming first spacer film on side surface of said first gate electrode;

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(e) by using said first gate electrode and said first spacer film as a mask, implanting

impurities of said second conductivity type into a surface layer of said first region, and thereafter

executing a second activation process to form a second impurity diffusion region;

(f) removing said first spacer film; and

(g) by using said first gate electrode as a mask, implanting impurities of said second

conductivity type into a surface layer in said first region, and thereafter executing a third

activation process to form third impurity diffusion region, wherein said third activation process is

executed so that the gradient of an impurity concentration distribution in a p-n junction formed

by the third impurity diffusion region becomes steeper than the gradient of an impurity

concentration distribution in a p-n junction formed by said first impurity diffusion region formed

by said first activation process.

Claim 11 (Original): A method of manufacturing a semiconductor device according to

claim 10, wherein each of said first to third activation processes includes a thermal treatment at a

temperature at least equal to 750 °C.

Claim 12 (Original): A method of manufacturing a semiconductor device according to

claim 10, wherein said third activation process is a laser thermal process.

Claim 13 (Previously Presented): A method of manufacturing a semiconductor device

according to claim 10, said step (b) forms first and second gate electrodes in respective partial

areas of said first and second active regions, and wherein the gate length of said first gate

electrode is shorter than the gate length of said second gate electrode.

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Claim 14 (Withdrawn): A method of manufacturing a semiconductor device according to

claim 11, wherein said step (c) is performed after said steps (d) and (e).

Claim 15 (Withdrawn): A method of manufacturing a semiconductor device according to

claim 14, wherein each of said first to third activation processes includes a thermal treatment at a

temperature at least equal to 750 °C.

Claim 16 (Withdrawn): A method of manufacturing a semiconductor device according to

claim 14, wherein said third activation process is a laser thermal process.

Claim 17 (Withdrawn): A method of manufacturing a semiconductor device according

to claim 14, said step (b) forms first and second gate electrodes in respective partial areas of said

first and second active regions, and wherein the gate length of said first gate electrode is shorter

than the gate length of said second gate electrode.

Claim 18 (Withdrawn): A semiconductor device comprising:

a semiconductor substrate having first and second regions of a first conductivity type

defined in a principal surface area of the semiconductor substrate;

first and second gate electrodes formed in said first and second regions;

first SDE regions formed in surface layer on both sides of said second gate electrode and

doped with impurities of a second conductivity type opposite to said first conductivity type;

second SDE regions formed in surface layer on both sides of said first gate electrode

wherein the gradient of an impurity concentration distribution in a p-n junction formed by said

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second SDE regions is steeper than the gradient of an impurity concentration distribution in a p-n

junction formed by said first SDE regions; and

source/drain regions formed on both sides of the first and second SDE regions wherein an

impurity concentration distribution is the same in both p-n junctions formed by said source/drain

regions in the first and second regions.

Claim 19 (Withdrawn): A semiconductor device according to claim 18, wherein a gate

length of said first gate electrode is shorter than a gate length of said second gate electrodes.

Claim 20 (Withdrawn): A semiconductor device according to claim 18, further

comprising a pocket implantation region of said first conductivity type at least in an area under

each of said first SDE regions.

Claim 21 (Withdrawn): A method of manufacturing a semiconductor device, comprising

the steps of:

(a) preparing a semiconductor substrate having a first region of a first conductivity type

and a second region filled with an element separation insulating film, respectively defined in a

principal surface area of the semiconductor substrate;

(b) forming a gate electrode at least in a partial area of the first region and a resistor layer

made of material same as the gate electrode at least in a partial area of the second region;

(c) forming first and second spacer films on side walls of the gate electrode and the

resistor layer;

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(d) implanting impurities of a second conductivity type opposite to the first conductivity

type into a surface layer in the first region by using the gate electrode and the first spacer films as

a mask, and also into the resistor layer, and then executing a first activation process to thereby

form first impurity diffusion regions in the surface layer in the first region and lower a resistance

of the resistor layer;

(e) removing the first and second spacer films; and

(f) implanting impurities of the second conductivity type into the surface layer in the first

region by using the gate electrode as a mask, and then executing a second activation process to

thereby form second impurity diffusion regions, wherein the second activation process is

performed under a condition that a gradient of an impurity concentration distribution in a p-n

junction in each of the second impurity diffusion regions becomes sharper than a gradient of an

impurity concentration distribution in a p-n' junction in each of the first impurity diffusion

regions formed by the first activation process.

Claim 22 (Withdrawn): A method of manufacturing a semiconductor device according to

claim 21, further comprising the steps of:

(g) forming a protective insulating film over the semiconductor substrate, the protective

insulating film covering the gate electrode and the resistor layer;

(h) forming a mask covering the second region and thereafter anisotropically etching the

protective insulating film to leave the protective insulating film on the side walls of the gate

electrodes and in the second region;

(i) depositing a metal layer over the semiconductor substrate and executing a heat

treatment to thereby form a metal silicide layer on an upper surface of the gate electrode; and

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(j) selectively removing the unreacted metal layer on the protective insulating film.

Claim 23 (Withdrawn): A method of manufacturing a semiconductor device, comprising

the steps of:

(a) preparing a semiconductor substrate having first and second regions of a first

conductivity type and a third region filled with an element separation insulating film,

respectively defined in a principal surface area of the semiconductor substrate;

(b) forming first and second gate electrodes at least in partial areas of the first and second

regions and a resistor layer made of material same as the first and second gate electrodes at least

in a partial area of the third region;

(c) implanting impurities of a second conductivity type opposite to the first conductivity

type into the second region by using the second gate electrode as a mask and thereafter executing

a first activation process to thereby form first impurity diffusion regions in a surface layer in the

second region;

(d) forming first spacer films on side walls of the first and second gate electrodes and

second spacer films on side walls of the resistor layer;

(e) implanting impurities of the second conductivity type at least in surface layers of the

first and second regions by using the first and second gate electrodes and the first spacer films as

a mask, and also into the resistor layer, and thereafter executing a second activation process to

thereby form second impurity diffusion regions at least in the surface layer of the first or second

region and lower a resistance of the resistor layer;

(f) removing the first and second spacer films; and

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(g) implanting impurities of the second conductivity type into the surface layer in the first

region by using the first gate electrode as a mask and thereafter executing a third activation

process to thereby form third impurity diffusion regions, wherein the third activation process is

performed under a condition that a gradient of an impurity concentration distribution in a p-n

junction in each of the third impurity diffusion regions becomes sharper than a gradient of an

impurity concentration distribution in a p-n junction in each of the first impurity diffusion

regions formed by the first activation process.

Claim 24 (Withdrawn): A method of manufacturing a semiconductor device according to

claim 23, further comprising the steps of:

(h) forming a protective insulating film over the semiconductor substrate, the protective

insulating film covering the first and second gate electrodes and the resistor layer;

(i) forming a mask covering the third region and partial areas in the first impurity

diffusion regions and thereafter anisotropically etching the protective insulating film to leave the

protective insulating film on the side walls of the first and second gate electrodes, in the second

region, and in said partial areas;

(i) depositing a metal layer over the semiconductor substrate and executing a heat

treatment to thereby form a metal silicide layer on an upper surface of the first impurity diffusion

regions excepting said partial area and on upper surfaces of the first and second gate electrodes;

and

(i) selectively removing the unreacted metal layer on the protective insulating film.

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Claim 25 (Previously Presented): A method of manufacturing a semiconductor device

according to claim 10, wherein said step (c) forms a resistor.

Claim 26 (Previously Presented): A method of manufacturing a semiconductor device

according to claim 25, wherein said step (d) also forms a silicidation preventing film on the first

impurity diffusion region.

Claim 27 (Previously Presented): A method of manufacturing a semiconductor device

according to claim 12, wherein said first and second activating processes are done by rapid

thermal annealing.

Claim 28 (Previously Presented): A method of manufacturing a semiconductor device

according to claim 10, wherein the gradient of the impurity concentration distribution of the p-n

junction formed by the third impurity diffusion region is steeper than the gradient of the impurity

concentration distribution of the p-n junction formed by the second impurity diffusion region.